



■ Report No.: DDT-R18042408-1E2

■ Issued Date: Sep. 20, 2018

# RF EXPOSURE REPORT

## FOR

<b>Applicant</b>	:	Walnut Technology (Dongguan) Limited
<b>Address</b>	:	B502, Unit 1, Building 17, Xinzhuoyuan, No. 4 Xinzhu Road, Songshan Lake High-tech District, Dongguan
<b>Equipment under Test</b>	:	SPECTRA
<b>Model No.</b>	:	Silver
<b>Trade Mark</b>	:	SPECTRA, WALNUTT
<b>FCC ID</b>	:	2AJJR-SILVER
<b>Manufacturer</b>	:	Walnut Technology (Dongguan) Limited
<b>Address</b>	:	B502, Unit 1, Building 17, Xinzhuoyuan, No. 4 Xinzhu Road, Songshan Lake High-tech District, Dongguan

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan  
City, Guangdong Province, China, 523808

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# REPORT

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## TEST REPORT DECLARE

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<b>Manufacturer</b>	:	Walnut Technology (Dongguan) Limited
<b>Address</b>	:	B502, Unit 1, Building 17, Xinzhuoyuan, No. 4 Xinzhu Road, Songshan Lake High-tech District, Dongguan

**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

**After evaluation, our opinion is that the equipment In Accordance with above standard.**

<b>Report No:</b>	DDT-R18042408-1E2		
<b>Date of Receipt:</b>	Apr. 26, 2018	<b>Date of Test:</b>	Apr. 26, 2018 ~ Sep. 20, 2018

**Prepared By:**

  
Ella Gong  
Ella Gong/Engineer

**Approved By:**

  
Damon Hu  
Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

## Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Sep. 20, 2018	

## 1. General information

### 1.1. Description of Equipment

EUT* Name	:	SPECTRA
Model Number	:	Silver
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 42V from external AC Adapter DC 36V 5000mAh Polymer Li-ion built-in battery
Radio Specification	:	Bluetooth V5.0
Operation frequency	:	2402MHz-2480MHz
Modulation	:	GFSK
Data rate	:	1Mbps
Antenna Type	:	Integral antenna, maximum PK gain: 0dBi
Sample Type	:	Series production

### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com)

## 2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where:

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Worse case is as below: [2440MHz, 2.31dBm (1.7mW) output power]

$(1.7/5) \cdot [\sqrt{2.440(\text{GHz})}] = 0.531 < 3.0$  for 1-g SAR

Then SAR evaluation is not required

**END OF REPORT**